PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing 16501 (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No International filing date (dayimonthiyear) Priority date (day/month/year) PCT/US2004/030907 07.10.2004 08.10.2003 International Patent Classification (IPC) or both national classification and IPC C07D223/16, A61K31/55, A61P3/06, A61P9/10, C07D403/04, C07D403/12, C07D223/14, C07D223/32, Applicant **ELI LILLY AND COMPANY** This opinion contains indications relating to the following items: Box No. Ⅰ Basis of the opinion ☐ Box No Ⅱ ☑ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability □ Box No. IV Lack of unity of invention ☑ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application ☐ Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220 3. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA. Authorized Officer

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

10/574649 International application No. PCT/US2004/030907

				(ADOM Mark December	2000		
	Box	No. I	Basis of the opinion	MARCH TO THE 30	MAK EUD		
1.	With the la	regard	d to the language , this opinion has been e ge in which it was filed, unless otherwise in	stablished on the basis of the internated adicated under this item.	tional application in		
	i	langua	pinion has been established on the basis on the language of a translatic Rules 12.3 and 23.1(b)).	of a translation from the original languon furnished for the purposes of inter	age into the following national search		
2.	With nece	regare ssary	d to any nucleotide and/or amino acid se to the claimed invention, this opinion has t	equence disclosed in the international been established on the basis of:	application and		
	a. type of material:						
		l as	equence listing				
		l tab	le(s) related to the sequence listing				
	b. for	rmat o	f material:				
		l in v	vritten format				
) in c	computer readable form				
	c. tım	ne of f	ling/furnishing:				
		l cor	ntained in the international application as fi	led.			
		file	d together with the international application	n in computer readable form.			
		furi	nished subsequently to this Authority for th	e purposes of search.			
3.	1	has be copies	ition, in the case that more than one versice of filed or furnished, the required statemes is identical to that in the application as file oriate, were furnished.	nts that the information in the subseq	uent or additional		
4.	Additional comments:						

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/030907

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:							
	the entire international application,						
⊠	claims Nos. 13-21 with respect to industrial applicability						
because:							
⊠	the said international application, or the said claims Nos. as above relate to the following subject matter which does not require an international preliminary examination (specify):						
	see separate sheet						
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):						
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.						
	no international search report has been established for the whole application or for said claims Nos.						
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:						
	the written form		has not been furnished				
			does not comply with the standard				
	the computer readable form		has not been furnished				
			does not comply with the standard				
	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.						
	See separate sheet for further of	detail	ds.				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2004/030907

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-25

No: Claims

Inventive step (IS)

Yes: Claims

1-25

No: Claims

No:

Industrial applicability (IA)

Yes: Claims

Claims

1-12,22-25

see separate sheet

2. Citations and explanations

Form PCT/ISA/237 (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/US2004/030907

IAP20 Rec'd PCT/PTO 30 MAR 2006

Re Item III

Claims 13-21 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

Re Item V

1. Reference is made to the following document:

D1: US-B1-6 586 448

2. Novelty (Article 33(2) PCT)

The present compounds differ from those of D1 in that they are tetrahydrobenzo[b]azepines or -azocines rather than tetrahydroquinolines.

3. Inventive step (Article 33(3) PCT)

The problem underlying the present application lies in the provision of further CETP inhibitors.

The applicant has demonstrated that a representative selection of compounds of claim 1 solve this problem (see p. 30).

Document D1 discloses compounds having the said activity, where the difference in structure lies in the size of the central heterocyclic moiety. No incentive can be found that would lead the person skilled in the art to alter the prior art compounds in this way. The solution to this problem proposed in claim 1 of the present application is therefore considered as involving an inventive step.

Form PCT/ISA/237 (Separate Sheet) (Sheet 1) (EPO-January 2004)

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4. Industrial applicability (Article 33(4) PCT)

For the assessment of the present claims 13-21 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.